

## SEQUENCE LISTINGS

- <110> National Cancer Center et al
- <120> Neutralizable epitope of HGF and neutralizing antibody binding to same
- <130> PCA31170-NCC
- <160> 35
- <170> KopatentIn 1.71
- <210> 1
- <211> 38
- <212> DNA
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- <223> Vkappa 5' sense primer RSCVK1
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- <210> 2
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- <223> Vkappa 5' sense primer RSCVK2
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- <210> 3
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42

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42

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<211> 42

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&lt;223&gt; V kappa 3' reverse primer RHybK3-B

&lt;400&gt; 6

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42

&lt;210&gt; 7

&lt;211&gt; 40

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; V lambda 5' sense primer RSClambda1

&lt;400&gt; 7

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40

&lt;210&gt; 8

&lt;211&gt; 45

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; V lambda 3' reverse primer RHybL-B

&lt;400&gt; 8

agatggtgca gccacagttc ggcctgtgac ggtcagctgg gtccc

45

&lt;210&gt; 9

&lt;211&gt; 42

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> VH 5' sense primer RHyVH1

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42

<210> 10

<211> 42

<212> DNA

<213> Artificial Sequence

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<223> VH 5' sense primer RHyVH2

<400> 10

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42

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42

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<210> 13  
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<400> 14  
cgaactgtgg ctgcaccatc tgtc 24

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<400> 15  
ggccatggct ggttgggcag c 21

<210> 16  
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<220>  
<223> Sense primer HlgGCH1-F for amplification of the human CH1 Chain from a cloned human Fab

<400> 16  
gcctccacca agggcccatc ggtc 24

<210> 17  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Reverse primer dpseq for amplification of the human CH1 Chain from a cloned human Fab

<400> 17  
agaagcgtag tcoggaacgt c 21

<210> 18  
<211> 41  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Sense primer RSC-F for PCR assembly of rabbit VL sequences with the human Ckappa PCR Product

<400> 18  
gaggaggagg aggaggaggc gggggccagg cggccgagct c 41

<210> 19  
<211> 21  
<212> DNA  
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<220>  
<223> Sense primer LeadVH for PCR assembly of rabbit VH sequences with the human CH1 PCR product

<400> 19  
gctgcccaac cagccatggc c 21

<210> 20  
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<223> Reverse primer dp-EX for PCR assembly of chimeric light-chain sequences with chimeric heavy-chain (Fd) sequences

<400> 20  
gaggaggagg aggaggagag aagcgtagtc cggaacgtc 39

<210> 21  
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<400> 21  
agaaacacaa agtctacgcc 20

<210> 22  
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<220>  
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<400> 22  
gttgggcagc gagtaataac 20

<210> 23  
<211> 348  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> nucleotide sequence encoding VH region of clone 61

<400> 23  
caggagcagc tgatggagtc cgggggtcgc ctgggtcaatc ctggcgaatc cctgacactc 60  
acctgcaaag cctctggatt caccttcagt agctactaca tgagctgggt cggccaggct 120  
ccaggaagg ggctggagtg gatcggatac attggtacta gtagtggtag cacttactac 180  
gcgaactctg tgaagggccg attcaccatc tccagcgaca acgcccagaa taccgtattt 240  
ctgcgaatga ccagttcac agactcggac acggccacct atttctgtgc aagagggctg 300  
ggcagaatca acttgtgggg ccaggcacc ctggtcaccg tctcttca 348



<210> 24  
<211> 327  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> nucleotide sequence encoding VL region of clone 61

<400> 24  
gagctcgtgc tgaccagac tccatcctct atgtctgcag ctgtgggagg cacagtcacc 60  
atcaattgcc aggccagtca gagtgttagc aactacitag cctggatca gcagaaacca 120  
gggcagcctc ccaagctcct gatctacagg gcatccactc tggcatctgg ggtcccatcg 180  
cgtttcagcg gcagtggatc tgggacagag ttactctca ccatcagtgg catgaaggct 240  
gaagatgctg ccacttatta ctgtcaaagt gggtattata gtgctggcgc gacttttggg 300  
ggtagcacca atgtggaaat caaacga 327

<210> 25  
<211> 348  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> nucleotide sequence encoding VH region of clone 68

<400> 25  
cagcagcagc tggtaggagc cgggggtcgc ctggatcaatc ctggcgaatc cctgacactc 60  
acctgcaaag cctctggatt caccttcagt acctactaca tgagctgggt ccgccaggct 120  
ccaggggaagg ggctagagtg gatcggatac attggtacta gtagtggtac cacttactac 180  
gcgaactctg tgaagggccg attcaccatc tccagcgaca acgccagaa taccgtattt 240

ctgcaaatga ccagtctgac agactcggac acggccacct atttctgtgc aagagggctg 300

ggcagaatta acttgtgggg cccaggcacc ctggtcaccg tctcctca 348

<210> 26

<211> 327

<212> DNA

<213> Artificial Sequence

<220>

<223> nucleotide sequence encoding VL region of clone 68

<400> 26

gagctcgatc tgaccagac tccatcctct gtgtctgcag ctgtgggagg cacagtcacc 60

atcaattgcc aggccagtca gagtgttagc aacctcttag cctggatatca gcagaaacca 120

gggcagcctc ccaagctcct gatttatggc gcatccaatc tggaatctgg ggtcccatcg 180

cgtttccgtg gcagtggatc tgggacagag ttactctca ccatcagtgg catgaaggct 240

gaagatgctg ccacttatta ctgtcaaagt gggtattata gtgctgggtgc gacttttggg 300

gctggcacca atgtggaaat caaacga 327

<210> 27

<211> 116

<212> PRT

<213> Artificial Sequence

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<223> amino acid sequence of VH region of clone 61

<400> 27

Gln Glu Gln Leu Met Glu Ser Gly Gly Arg Leu Val Asn Pro Gly Glu

1

5

10

15

Ser Leu Thr Leu Thr Cys Lys Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
                   20                  25                  30  
 Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile  
                   35                  40                  45  
 Gly Tyr Ile Gly Thr Ser Ser Gly Thr Thr Tyr Tyr Ala Asn Ser Val  
                   50                  55                  60  
 Lys Gly Arg Phe Thr Ile Ser Ser Asp Asn Ala Gln Asn Thr Val Phe  
                   65                  70                  75                  80  
 Leu Arg Met Thr Ser Leu Thr Asp Ser Asp Thr Ala Thr Tyr Phe Cys  
                   85                  90                  95  
 Ala Arg Gly Leu Gly Arg Ile Asn Leu Trp Gly Pro Gly Thr Leu Val  
                   100                  105                  110  
 Thr Val Ser Ser  
                   115

<210> 28  
 <211> 109  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> amino acid sequence of VL region of clone 61

<400> 28  
 Glu Leu Val Leu Thr Gln Thr Pro Ser Ser Met Ser Ala Ala Val Gly  
   1                  5                  10                  15  
 Gly Thr Val Thr Ile Asn Cys Gln Ala Ser Gln Ser Val Ser Asn Tyr  
                   20                  25                  30  
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile  
                   35                  40                  45

Tyr Arg Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly  
 50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Gly Met Lys Ala  
 65 70 75 80

Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Gly Tyr Tyr Ser Ala Gly  
 85 90 95

Ala Thr Phe Gly Gly Gly Thr Asn Val Glu Ile Lys Arg  
 100 105

<210> 29

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> amino acid sequence of VH region of clone 68

<400> 29

Gln Gln Gln Leu Val Glu Ser Gly Gly Arg Leu Val Asn Pro Gly Glu  
 1 5 10 15

Ser Leu Thr Leu Thr Cys Lys Ala Ser Gly Phe Thr Phe Ser Thr Tyr  
 20 25 30

Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile  
 35 40 45

Gly Tyr Ile Gly Thr Ser Ser Gly Thr Thr Tyr Tyr Ala Asn Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Ser Asp Asn Ala Gln Asn Thr Val Phe  
 65 70 75 80

Leu Gln Met Thr Ser Leu Thr Asp Ser Asp Thr Ala Thr Tyr Phe Cys  
 85 90 95

Ala Arg Gly Leu Gly Arg Ile Asn Leu Trp Gly Pro Gly Thr Leu Val  
                   100                  105                  110

Thr Val Ser Ser  
                   115

<210> 30  
 <211> 109  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> amino acid sequence of VL region of clone 68

<400> 30  
 Glu Leu Asp Leu Thr Gln Thr Pro Ser Ser Val Ser Ala Ala Val Gly  
   1                  5                  10                  15

Gly Thr Val Thr Ile Asn Cys Gln Ala Ser Gln Ser Val Ser Asn Leu  
                   20                  25                  30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile  
                   35                  40                  45

Tyr Gly Ala Ser Asn Leu Glu Ser Gly Val Pro Ser Arg Phe Arg Gly  
                   50                  55                  60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Gly Met Lys Ala  
   65                  70                  75                  80

Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Gly Tyr Tyr Ser Ala Gly  
                   85                  90                  95

Ala Thr Phe Gly Ala Gly Thr Asn Val Glu Ile Lys Arg  
                   100                  105

<210> 31

<211> 20  
<212> DNA  
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<220>  
<223> sequencing primer

<400> 31  
ccctcatagt tagcgtaacg

20

<210> 32  
<211> 12  
<212> PRT  
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<220>  
<223> neutralizable epitope of HGF

<400> 32  
His His Pro His Phe Lys Pro Val Ser Asn Ser Arg  
1 5 10

<210> 33  
<211> 12  
<212> PRT  
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<220>  
<223> neutralizable epitope of HGF

<400> 33  
Lys Ser Leu Ser Arg His Asp His Ile His His His  
1 5 10

<210> 34

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> nucleotide sequence encoding SEQ. ID. No. 32

<400> 34

catcatccgc attttaagcc tgtgtctaata agtcgt

36

<210> 35

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> nucleotide sequence encoding SEQ. ID. No. 33

<400> 35

aagtctctta gtcggcatga tcatattcat catcat

36